

Title (en)

Controlling fungal or bacterial growth in synthetic metalworking fluids.

Title (de)

Kontrolle des Pilz- oder Bakterienwachstums in synthetischen Metallbearbeitungsflüssigkeiten.

Title (fr)

Contrôle de la croissance fongique ou bactérienne dans les fluides synthétiques de travail des métaux.

Publication

EP 0368593 A1 19900516 (EN)

Application

EP 89311475 A 19891106

Priority

US 26733788 A 19881104

Abstract (en)

A method of controlling fungal or bacterial growth in a synthetic metalworkig fluid comprising the addition to said fluid of (a1) 5-chloro-2-methyl-4-isothiazolin-3-one and (a2) 2-methyl-4-isothiazolin-3-one and (b) an ionene polymer wherein the ratio by weight of the sum of components (a1) and (a2) to component (b) is form 1:99 to 99:1 and wherein the amounts of the components are synergistically effective to control fungal or bacterial growth in said fluid. Compositions containing these three components are also disclosed.

IPC 1-7

C10M 161/00; **C10M 173/00**; **C10N 30/16**

IPC 8 full level

A01N 33/12 (2006.01); **A01N 43/80** (2006.01); **C10M 161/00** (2006.01); **C10M 173/02** (2006.01); **C10N 30/16** (2006.01); **C10N 40/20** (2006.01); **C10N 40/22** (2006.01)

CPC (source: EP)

A01N 43/80 (2013.01); **C10M 135/36** (2013.01); **C10M 149/12** (2013.01); **C10M 149/14** (2013.01); **C10M 161/00** (2013.01); **C10M 173/02** (2013.01); **C10M 2201/02** (2013.01); **C10M 2217/00** (2013.01); **C10M 2217/02** (2013.01); **C10M 2217/04** (2013.01); **C10M 2217/041** (2013.01); **C10M 2217/042** (2013.01); **C10M 2217/043** (2013.01); **C10M 2219/10** (2013.01); **C10M 2219/102** (2013.01); **C10M 2219/104** (2013.01); **C10M 2219/106** (2013.01); **C10M 2219/108** (2013.01); **C10N 2040/20** (2013.01); **C10N 2050/01** (2020.05)

Citation (search report)

- [Y] DE 2930865 A1 19810212 - SCHUELKE & MAYR GMBH
- [Y] GB 1461909 A 19770119 - ICI LTD
- [AD] US 4111679 A 19780905 - SHAIR SALEM A, et al
- [A] DE 2800739 A1 19790712 - BODE BACILLOLFAB
- [AD] US 4089977 A 19780516 - GREEN HAROLD A, et al
- [A] CA 1131404 A 19820914 - ROHM & HAAS

Cited by

EP0420631A1; EP0542489A3; US5419897A; US5776960A; US6008236A; US9534182B1; WO9839968A1; WO9813444A1; WO9423712A1; WO9816108A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0368593 A1 19900516; AU 4135189 A 19900510; AU 627496 B2 19920827; BR 8905197 A 19900515; FI 894112 A0 19890901; FI 894112 A 19900505; FI 95434 B 19951031; FI 95434 C 19960212; JP H02138103 A 19900528; MX 170397 B 19930819; NO 173583 B 19930927; NO 173583 C 19940105; NO 894381 D0 19891103; NO 894381 L 19900507; NZ 230001 A 19910625; ZA 894985 B 19900425

DOCDB simple family (application)

EP 89311475 A 19891106; AU 4135189 A 19890915; BR 8905197 A 19891010; FI 894112 A 19890901; JP 21285789 A 19890818; MX 1821689 A 19891103; NO 894381 A 19891103; NZ 23000189 A 19890719; ZA 894985 A 19890630